SUPERMICRO®

A1SAi & A1SRi Series Motherboard

Quick Reference Guide Rev. 1.1

Contact Information

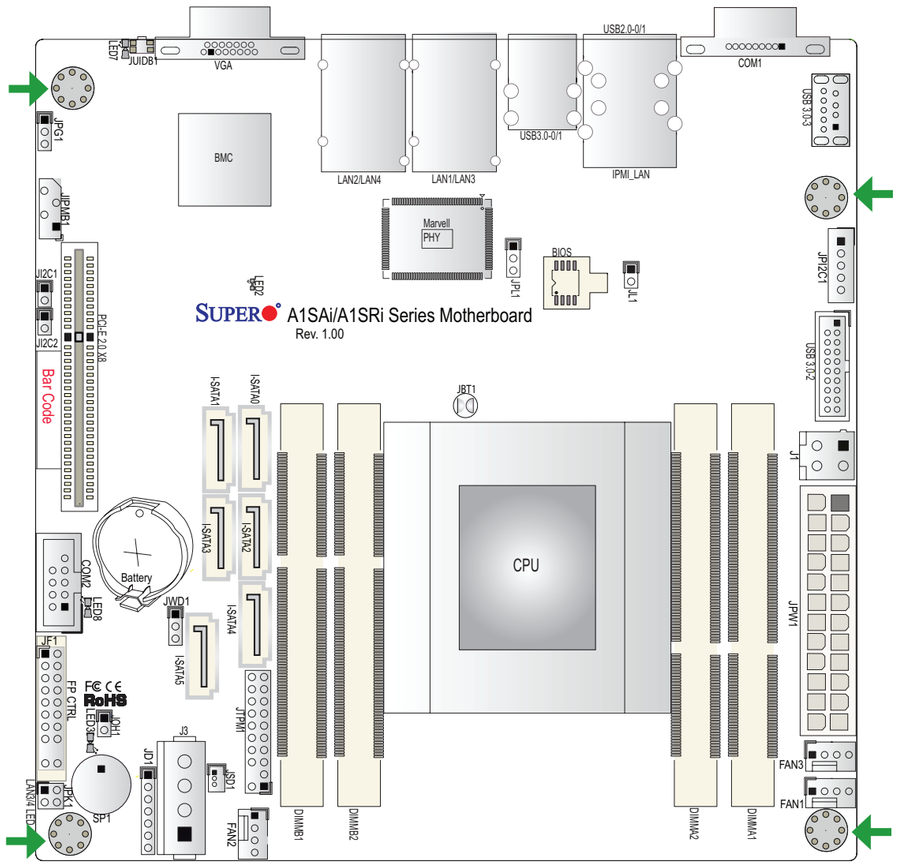
- Website: http://www.supermicro.com (Email: support@supermicro.com)
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: ftp://ftp.supermicro.com
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

Package Contents

- One (1) Supermicro Motherboard
- Six (6) SATA Cables (Four for -2358SKU)
- One (1) I/O Shield

WARNING: This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Motherboard Layout and Features



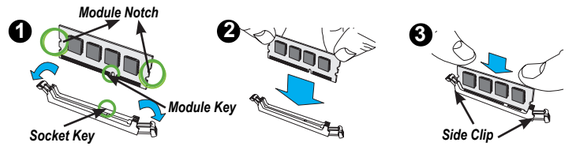
= mounting hole

Memory Installation and Removal

Installing the SO-DIMM Memory Module

1. Align the key on the bottom of the SO-DIMM module against the receptive point on the memory socket. Take note of the notches on the side of the SO-DIMM module, and of the locking clips on the socket to avoid causing damage.

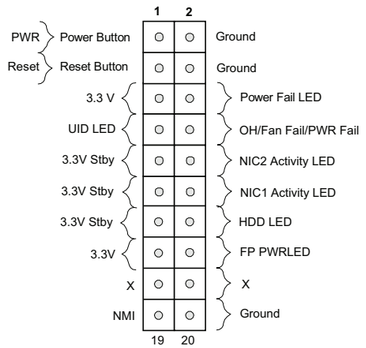
2. Install the SO-DIMM module straight down into the socket until it is securely seated in the socket. The side clips will automatically lock the module into place.



Removing the SO-DIMM Memory Module

Push the side clips away from the module to release it from the socket.

Front Control Panel (JF1)



Jumpers, Connectors and LED Indicators

Jumpers

Jumper	Description	Default
JBT1	CMOS Clear	Off (Normal)
JI²C1/JI²C2	SMB to PCI Express Slots	Off (Disabled)
JPG1	VGA Enable	Pins 1-2 (Enabled)
JPL1	Ethernet LAN Ports Enable	Pins 1-2 (Enabled)
JWD1	Watch Dog Enable	Pins 1-2 (Reset)

Connectors

Connector	Description
Battery (JBAT1)	Onboard Battery
COM1/COM2	COM1 Port, COM2 Header
FAN1 - FAN3	CPU and System Cooling Fans
IPMI LAN	Dedicated IPMI LAN Port
J1*	4-pin 12V DC Power Connector (To provide alternative power for the special enclosure when the 24-pin ATX power is not in use.)*
J3	4-pin Power Connector for HDD use (to provide power from the motherboard to onboard HDD devices)
JD1	Power LED/Speaker Header (Pins 1-3: Power LED, Pins 6-7: Internal Buzzer, Pins 4-7: External Speaker)
JF1	Front Control Panel Header
JIPMB1	4-pin External SMbus I²C Header (for an IPMI Card)
JL1	Chassis Intrusion Header
JOH1	Overheat LED Header
JPI2C1	Power Supply System Management Bus (SMBus) I²C Header
JPK1	LAN3/LAN4 LED Activity Header
JPW1*	24-pin ATX Main Power Connector
JSD1	SATA DOM (Device On Module) Power Connector
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUIDB1	Unit Identifier (UID) Switch
LAN1/LAN3, LAN2/LAN4	Gigabit Ethernet (RJ45) Ports
PCI-E Slot	PCI-E 2.0 x8 Slot
I-SATA0-1	Intel Serial ATA 3.0 Ports 0/1
I-SATA2-5	Intel Serial ATA 2.0 Ports 2/3/4/5 (4/5 not available on A1SRi-2358F)
SP1	Internal Speaker/Buzzer
USB 2.0 0/1	Back Panel USB 2.0 Ports 0/1
USB 3.0 0/1	Back Panel USB 3.0 Ports 0/1
USB 3.0 2/3	USB3.0 - Port 2 (Single port via Internal Header), Port 3 (Type A)
VGA	Back Panel VGA Port

*Do not use the 4-pin DC power at J1 when the 24-pin ATX Power at JPW1 is connected to the power supply. Do not plug in both J1 and JPW1 at the same time.

LED Indicators

LED	Description	Color/State	Status
LED2	BMC Heartbeat LED	Green: Blinking	BMC: Normal
LED3	Power LED	Green: On	System PWR On
LED7	UID Switch LED	Blue: On	Unit Identified
LED8	Overheat/PWR Fail/Fan Fail LED	Red: Solid on/Blinking	Solid On: Overheat, Blinking: PWR Fail or Fan Fail

Memory Support

The A1SAi (2750F/2550F) and A1SRi (2758F/2558F) supports up to 64GB of DDR3 ECC Unbuffered SO-DIMM 1600/1333 MHz (1.35V/1.5V) memory in four (4) slots.

A1SRi-2358F supports up to 16GB at 1333MHz in two slots: DIMMA1/A2. Some 1600MHz can be used with -2358F but will operate at 1333MHz.

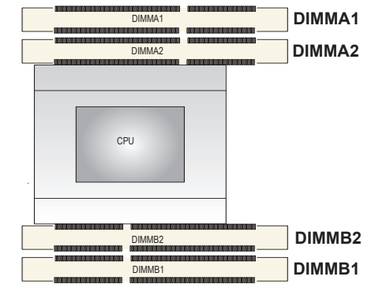
Memory Population Guidelines

Please follow the table below when populating the A1SAi & A1SRi Series motherboard. A1SRi-2358F only supports up to 8GB memory modules.

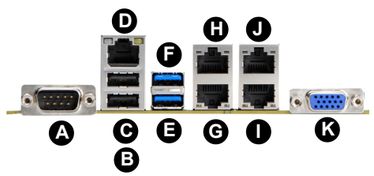
Recommended Population (Balanced)				
DIMMA1 Slot	DIMMB1 Slot	DIMMA2 Slot	DIMMB2 Slot	Total System Memory
4GB				4GB
4GB	4GB			8GB
4GB	4GB	4GB	4GB	16GB
8GB	8GB			16GB
8GB	8GB	8GB	8GB	32GB
16GB	16GB	16GB	16GB	64GB

1. Always use DDR3 SO-DIMM modules of the same type, size, and speed. Mixing memory modules of different types and speeds is not allowed.

2. This motherboard only supports the following memory population configurations: a single module (DIMMA1), one pair, or two pairs.



Back Panel I/O Connectors



A. COM1	G. LAN1
B. USB Port 0 (2.0)	H. LAN3
C. USB Port 1 (2.0)	I. LAN2
D. IPMI LAN	J. LAN4
E. USB Port 0 (3.0)	K. VGA
F. USB Port 1 (3.0)	

Notes:

1. Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.

2. Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

3. Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU and motherboard installation instructions.

MNL-1555-QRG 1.1